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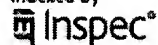
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» Key

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

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IEEE STD IEEE Standard

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14-16 July 2004 Page(s):139 - 144
Digital Object Identifier 10.1109/IV.2004.1320136
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Hirakawa, M.; Mizumoto, S.; Yoshitaka, A.; Ichikawa, T.;
[Multimedia Software Engineering, 1998. Proceedings. International Workshop](#)
20-21 April 1998 Page(s):96 - 103
Digital Object Identifier 10.1109/MMSE.1998.722956
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A systems design for an operational demonstration of automatic vehicle monitoring using Loran-C

DiCesare, F. Gerhardt, L.A. Dean, W.N.

Rensselaer Polytechnic Institute, Troy, NY, USA

This paper appears in: [Vehicular Technology Conference, 1981. 31st IEEE](#)

Publication Date: April 1981

Volume: 31

On page(s): 321 - 330

Posted online: 2006-06-19 10:22:26.0

Abstract

The goal of the program is to determine the benefits and disadvantages of the use of Loran-C AVM applications. This determination will be accomplished through on-site experiments. The experiments include police dispatching, EMS dispatching, highway inventory, and traffic flow experiments will be conducted as part of normal operations in each of the application environments. First, does the technology work in the application environment? Second, what are the benefits and disadvantages of implementing a Loran-C AVM system, the answer to the first question depends on two factors: location and reliability. To answer the second question, changes in service efficiency and effectiveness result of the introduction of a Loran-C AVM system will be evaluated by the demonstration. New York, containing the city of Rochester, was selected for the program. An experimental application is presented. This includes discussion of the evaluation methodology, the measurement of effectiveness, sample size, experiment duration, and fleet and dispatcher conditions. The applications are emphasized. Alternate fleet choices are assessed in terms of both experimental and system design implications. The preferred alternative would equip 27 Monroe County Sheriff's and 10-15 National Ambulance Corporation emergency medical vehicles. Each dispatcher is equipped with a Loran-C receiver and a transceiver which will transmit position upon being triggered approximately every four seconds. The equipment at the dispatch centers will utilize raster graphics technology for integrated display of area maps, vehicle positions and incident locations. A videodisk player will be used for video storage of the maps to be displayed. The maps will be displayed after conversion from time differences to geographic coordinates following a DIME file (street address directory) to provide the geographic coordinates of the incident location. The entire system is controlled and coordinated by a mid-range minicomputer with standard hard disk and tape drives. The highway inventory and traffic records experiments are specific to Loran-C accuracy study in Monroe County are given and the anticipated results of the demonstration are discussed.

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Fuchs, G. Schumann, H.

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This paper appears in: [Information Visualisation, 2004. IV 2004. Proceedings. Eighth International Conference on](#)

Publication Date: 14-16 July 2004

On page(s): 139 - 144

Number of Pages: xxi+1040

ISSN: 1093-9547

Digital Object Identifier: 10.1109/IV.2004.1320136

Posted online: 2004-08-09 15:59:13.0

Abstract

The effective visual exploration of large and complexly structured, abstract data requires sophisticated interactive visualization techniques. Development of these techniques is the major discipline in visualization. On the other hand, visualization of geospatial data is an important topic in cartography. The necessity to combine expertise from both fields has long been commonly recognized. In this paper, considerations on the combination of arbitrary multivariate data visualizations, focus & context techniques and thematic map displays are discussed that will allow the efficient combination of techniques from both information visualization and cartography.

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Choose [Citation & Abstract](#)Download [ASCII Text](#)[» Learn More](#)[Rights and Permissions](#)[» Learn More](#)**A situation-sensitive interface for the management of personal documents**[Hirakawa, M.](#) [Mizumoto, S.](#) [Yoshitaka, A.](#) [Ichikawa, T.](#)

Fac. of Eng., Hiroshima Univ., Japan ;

This paper appears in: **Multimedia Software Engineering, 1998. Proceedings. International Conference on**

Publication Date: 20-21 April 1998

On page(s): 96 - 103

Number of Pages: viii+119

Meeting Date: 04/20/1998 - 04/21/1998

Location: Kyoto

INSPEC Accession Number:6076398

Digital Object Identifier: 10.1109/MMSE.1998.722956

Posted online: 2002-08-06 21:52:03.0

Abstract

While multimedia/multimodal interfaces allow people to interact with computers more easily, the explosion of the information to be managed, an additional facility for assisting people in managing information is needed. A new approach of personal information management based on the current situation is presented. This study was motivated by the fact that (mobile) computers are operated in various situations, including the time when an event occurs, the location where we are, and actions performed in the past. User's actions are dependent on situations. In our trial, information is managed selectively in accordance with the current situation. Here the system monitors user's actions and establishes relationships between the information and situations at runtime. A prototype system has been implemented for demonstrating the effectiveness of the idea in file management, is

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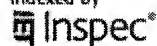
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